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Agricultural Memorandum No 455

Return to Capacity; Wheat and Fallow Acreages - ENGLAND

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Combining the results of the last seven Ag Mems. for the several ADAS regions we now obtain:-

Harvest Year	Rc	F	Rw	W	Estimations F	Estimations W
1959	3.9	351	3.7	1825	322	1778
1960	10.4	180	10.6	1987	192	2020
1961	4.2	285	4.4	1716	296	1803
1962	9.1	160	9.4	2127	196	2033
1963	11.1	205	11.8	1823	174	-
1964	8.5	181	9.1	2093	194	2132
1965	14.7	149	15.5	2409	144	2411
1966	6.0	241	6.5	2149	221	2151
1967	6.0	210	6.6	2201	216	2210
1968	6.7	181	7.3	2306	197	2290
				Mean Error	18	36 (under 2%)

Allowing for an "improvement" factor of 7 units (7,000 acres) a year, the correlation between log Rc and log F is 0.9.

Approximate formula

$$\log F = 2.803 - \tfrac{1}{2} \log Rc - \frac{n}{100}$$

where n is number of years after 1959.

Omitting 1963, the best formula for wheat is

$$1649 + 35\ Rw + 55\ n'$$

where n' is number of years after 1961.

A mean error of 36 in a figure which ranges from 1716 to 2409 is very satisfactory.

The figures for 1969 and 1970 were

Rc = 2.3 and 10.1
Rw = 2.2 and 10.5 respectively